

What is claimed is:

1. A tension mask assembly comprising: a tension mask having electron
beam through holes shaped as a slot or grill, a sub-frame for tensioning the tension
5 mask, and main frames welded to the tension mask,

wherein each of the main frames is bent at a middle portion in the width
direction, and has a portion perpendicular to the tension mask defining a partition and
another portion opposite to the tension mask defining a lower plane,

wherein widths of a middle portion and both ends of the lower plane are formed
10 in the range of the following equation:

$$0 < \frac{w_1 - w_2}{w_2} \leq 1.0,$$

herein, w_1 is the width of the middle portion, and w_2 is the width of both ends.

2. A tension mask assembly comprising: a tension mask having electron
15 beam through holes shaped as a slot or grill, a sub-frame for tensioning the tension
mask, and main frames welded to the tension mask,

wherein each of the main frames has a partition perpendicular to the tension
mask, a lower plane perpendicularly bent from the partition with a certain width to be
opposed to the tension mask, and a support bent from the lower plane to support the
20 partition at the outer edge,

wherein widths of a middle portion and both ends of the lower plane are formed
in the range of the following equation:

$$0 < \frac{y_1 - y_2}{y_2} \leq 1.0,$$

herein, y_1 is the width of the middle portion, and y_2 is the width of both ends.

3. A tension mask assembly according to claim 2, wherein widths of a middle portion and both ends of the support are formed in the range of the following equation:
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$$0 < \frac{d_1 - d_2}{d_2} \leq 1.0,$$

herein, d_1 is the width of the middle portion, and d_2 is the width of both ends.